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PATENT APPLICATION CS-8689 BCS033014

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF	) CDOUD NO	1010
REINER FISCHER ET AL	) group no.: ) `	1616
SERIAL NUMBER: 10/559,703	) ) \	
FILED: DECEMBER 7, 2005	, ) \	
TITLE: N-HETEROCYCLYLPHENYL- SUBSTITUTED CYCLIC KETOENOLS	, ) ) )	

## **INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements. Copies of the foreign documents and articles listed on the attached Form PTO-1449 are enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an enveloped addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on $\underline{6/26/06}$
Date
Richard E.L. Henderson, Reg. No. 31,619
Name of applicant, assignee or Registered Representative
Richard El Hand
Signature
June 26, 2006
Data

Concise statements of the presently understood relevance of each of the documents are found in the specification filed.

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any document mentioned herein constitutes prior art, or that the documents listed severally or in any combination with one another or with any other information, are believed to render any claim in the subject application prima facie unpatentable.

Respectfully submitted,

By Lin

Richard E. L. Henderson Attorney for Applicant(s)

Reg. No. 31,619

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Sheet 1 of 16

Rev. 7-80 Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT

Atty. Docket No.

Serial No. 10/559,703

Reiner Fischer et al

Filing Date December 07, 2005 Group No. 1616

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	AA	3,542,809	11/24/70	(Bel. to corresp. to DE Nakanishi	19 45 703) 260	332.2	
	АВ	**3,644,409	02/22/72	Felder et al	260	247.2	
	AC	4,021,224	05/03/77	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	88	
	AD	4,104,043	08/01/78	(Bel. to corresp. to DE Durden, Jr. et al	23 61 084) 71	107	
	AE	4,137,070	01/30/79	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	100	
	AF	4,175,135	11/20/79	Haines	424	311	
	AG	4,186,130	01/29/80	(Bel. to corresp. to DE Teach	23 50 547) 548	215	
	АН	4,209,423	06/24/80	Hutchings et al	252	435	
	AI	4,243,811	01/06/81	(Bel. to corresp. to DE Teach	23 50 547) 548	215	
	AJ	4,256,657	03/17/81	(Bel. to corresp. to DE Wheeler	2 813 341) 260	465 D	
	AK	4,256,658	03/17/81	(Bel. to corresp. to DE Wheeler	28 13 341) 260	465 D	

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 1				4		Yes	No*
AL	2 497 074	03/25/04	(Bel. to corresp. to DE 10 239 479) Canada				
AM	346 620 A1	12/20/89	Europe (Abstract attached)				х
AN	2000-53670	02/22/00	Japan (Abstract attached)				x
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		Chem. Pharm. Bull., vol. 15, (month unavailable) 1967, pages 1120-1122, Seikichi Suzuki et al,
	AR	"Studies on Antiviral Agents. IV. Biological Activity of Tenuazonic Acid Derivatives"
		Liebigs Ann. Chem., (month unavailable) 1985, pages 1095-1098, Roland Schmierer et al,
	AS	"Cyclisierung von N-Acylalanin- und N-Acylglycinestern"
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	AT	et al, "Synthesis of (E)- and (Z)-Pulvinones"
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EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Neither English Language Equivalent nor an English Language Translation is available.

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			Sheet 2 of 16	
Form PTO 1449	U.S. Department of Commerce	Atty. Docket No.	Serial No.	-
Rev. 7-80	Patent and Trademark Office	CS8689/BCS033014	10/559,703	
LIST O	F PRIOR ART CITED BY APPLICANT	Applicant		
(U	se Several Sheets If Necessary)	Reiner Fischer et al		
		Filing Date	Group No.	
		December 07, 2005	1616	
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	AA	4,256,659	03/17/81	(Bel. to corresp. to DE Wheeler	28 13 341) 260	465 D	
	AB	4,257,858	03/24/81	(Bel. to corresp. to DE Wheeler	28 13 341) 204	158 R	
	AC	4,269,618	05/26/81	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	88	
	AD_	4,283,348	08/11/81	Wheeler	260	465 D	
	AE	4,303,669	12/01/81	D'Silva	424	282	
	AF	4,338,122	07/06/82	Wheeler	71	122	ļ
	AG	4,351,666	09/28/82	Koerwer	71	106	
	АН	4,409,153	10/11/83	Hodakowski	260	946	
	AI	4,415,352	11/15/83	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	88	
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	AK_	4,422,870	12/27/83	(Bel. to corresp. to DE Wheeler	28 13 341) 71	106	

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							Yes	No*
	AL	03/028446 A2	04/10/03	World				
	AM	2,199,636	04/25/96	(Bel. to corresp. to WO 96/11574) Canada				
	AN	2 492 096	01/22/04	(Bel. to corresp. to DE 10 231 333) Canada				
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AR	Heterocyclen, 184, Zur Synthese von Kawalactonderivaten"
	Chem. Ber., 91, (month unavailable) 1958, page 2849, Karl-Heniz Boltze et al, "Ringschlüsse mi
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Atty. Docket No. CS8689/BCS033014 Serial No. 10/559,703 Applicant Reiner Fischer et al Group No. Filing Date December 07, 2005 1616

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	AA	4,436,666	03/13/84	Wheeler	260	455 B	
	AB	4,526,723	07/02/85	Wheeler et al	260	410.5	
	AC	4,551,547	11/05/85	Wheeler	560	255	
	AD	4,613,617	09/23/86	Sousa	514	521	
	AE	4,632,698	12/30/86	Wheeler	71	106	
	AF	4,623,727	11/18/86	(Bel. to corresp. to EP Hübele	86 750) 546	176	
	AG	4,639,266	01/27/87	(Bel. to corresp. to EP Heubach et al	174 562) 71	92	
	АН	4,659,372	04/21/87	(Bel. to corresp. to DE Wheeler	28 13 341) 71	106	
• •	AI	4,708,735	11/24/87	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	118	
	AJ	4,758,264	07/19/88	(Bel. to corresp. to EP Hubele	86 750) 71	94	
	AK	4,785,105	11/15/88	(Bel. to corresp. to EP Hubele	86 750) 546	178	

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		H. Heterocycl. Chem., 10, April 1973, pages 223-224, Roger Ketcham et al, "Synthesis of
	AR	Heterocycles. 174 (1.2) Substituted Thiazines and Bisthiazinyls from Dithiooxamide and
		Trichlorophenyl Malonates"
		Tetrahedron, vol. 48, no. 36, (month unavailable) 1992, pages 7519-7526, Jason Micklefield et al,
	AS	"Alkylation and Acylation of 5-Penylsulphonyl- and 5-Cyanobutyrolactones"
		J. Chem. Soc. (C), (month unavailable) 1967, pages 405-409, R.L. Edwards et al, "Constituents
	AT	of the Higher Fungi. Part IV. Involutin, a Diphenylcyclopenteneone from Paxillus involutus (Oeder
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CS8689/BCS033014
10/559,703
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Applicant
Reiner Fischer et al
Filing Date
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	AA	4,785,106	11/15/88	(Bel. to corresp. to EP Hubele	86 750) 546	178	
	АВ	4,822,884	04/18/89	(Bel. to corresp. to EP Hubele	86 750) 546	177	
	AC	4,851,033	07/25/89	(Bel. to corresp. to EP Hubele	86 750) 71	94	
	AD	4,881,966	11/21/89	(Bel. to corresp. to EP Nyffeler et al	191 736) 71	94	
	AE	4,891,057	01/02/90	(Bel. to corresp. to EP Sohn et al	269 806) 71	72	
	AF	4,902,340	02/20/90	(Bel. to corresp. to EP Hubele	94 349) 71	94	
	AG	4,925,868	05/15/90	(Bel. to corresp. to EP Terao et al	262 399) 514	425	
	АН	4,971,618	11/20/90	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	93	
	AI	4,985,063	01/15/91	(Bel. to corresp. to EP Fischer et al	355 599) 71	88	
	AJ	5,023,333	06/11/91	(Bel. to corresp. to EP Hubele	94 349) 546	175	
	AK	5,045,107	09/03/91	(Bel. to corresp. to EP Hubele	86 750) 71	94	

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		Journal of Ecomonic Entomology, 66, (month unavailable) 1973, pages 584-586, A.A. Sousa et al,
AF	3	"Esters of 3-Hydroxy-2-Arylindones, a New Class of Acaricide"
		J. Org. Chem., Vol. 44, No. 26, (month unavailable) 1979, pages 4906-4912, Thomas N. Wheeler,
AS	S	"Novel Photochemical Synthesis of 2-Aryl-1,3-cyclohexanediones"
		Chemical Reviews, 52, (month unavailable) 1953, pages 237-416, Norman O.V. Sonntag, "The
A7		Reactions of Aliphatic Acid Chlorides"
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	AA	5,045,560	09/03/91	(Bel. to corresp. to EP Fischer et al	377 893) 514	425	
	AB_	5,082,949	01/21/92	(Bel. to corresp. to EP Sohn et al	269 806) 548	378	
	AC	5,091,537	02/25/92	(Bel. to corresp. to EP Fischer et al	355 599) 546	226	
	AD	5,094,681	03/10/92	(Bel. to corresp. to DE Krämer et al	40 14 420) 71	88	
	ΑE	5,102,445	04/07/92	(Bel. to corresp. to EP Hubele	94 349) 71	94	
	AF	5,116,836	05/26/92	(Bel. to corresp. to EP Fischer et al	415 211) 514	224.2	
	AG	5,142,065	08/25/92	(Bel. to corresp. to EP Fischer et al	355 599) 548	533	
	АН	5,186,737	02/16/93	(Bel. to corresp. to EP Fischer et al	377 893) 504	283	
	ΑI	5,207,817	05/04/93	(Bel. to corresp. to DE Krämer et al	40 14 420) 504	299	
	AJ	5,258,527	11/02/93	(Bel. to corresp. to EP Krauskopf et al	456 063) 548	543	
	AK	5,262,383	11/16/93	(Bel. to corresp. to EP Fischer et al	528 156) 504	195	

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	AR	Derivatives: Part XVIII-Formation of I-Alkyl-(or alkaryl or aryl)-3-methyl-7-chloro-(or 5-chloro)-
		isoquinolines"
		Chem. Ind., (London) November 9, 1968, page 1568, H.R. Harrison et al, "Use of molecular sieves
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		Schotten-Baumann, Organikum, VEB Deutscher Verlag der Wissenschaften, Berlin (month
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LIST OF PRIOR ART CITED BY APPLICANT 10/559,703 Rev. 7-80 Applicant (Use Several Sheets If Necessary) Reiner Fischer et al Filing Date Group No. December 07, 2005 1616

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	AA	5,314,863	05/24/94	(Bel. to corresp. to WO Löher et al	91/08202) 504	100	
	AB	5,332,720	07/26/94	(Bel. to corresp. to EP Krüger et al	508 126) 504	281	
	AC	5,358,924	10/25/94	(Bel. to corresp. to EP Krüger et al	508 126) 504	197	
	AD	5,380,852	01/10/95	(Bel. to corresp. to EP Schütze et al	492 366) 546	174	
	AE	5,401,700	03/28/95	(Bel. to corresp. to EP Sohn et al	333 131) 504	106	
	AF	5,407,897	04/18/95	(Bel. to corresp. to EP Cary et al	613 618) 504	108	
	AG	5,462,913	10/31/95	(Bel. to corresp. to EP Fischer et al	596 298) 504	138	
	АН	5,474,974	12/12/95	(Bel. to corresp. to EP Krüger et al	508 126) 504	236	
	AI	5,494,890	02/27/96	(Bel. to corresp. to WO Cederbaum et al	92/16510) 504	281	
	LA	5,504,057	04/02/96	(Bel. to corresp. to EP Fischer et al	613 884) 504	283	
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	AR	(month unavailable) 1952, pages 467-469, H. Henecka, "Isoanthraflavinsaure; Morpholchinon"
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	AS	M. Miocque, "Addition Des Réactifs Nucléophiles Sur La Triple Liaison Nitrile, I. – Addition Des
		Hydrures, De L'eau, De L'hydrogéne Sulfuré Et De L'hydrogéne Sélenié"
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	AA	5,516,750	05/14/96	(Bel. to corresp. to WO Willms et al	95/07897) 504	106	
	AB	5,516,918	05/14/96	(Bel. to corresp. to EP Cary et al	613 618) 549	23	
	AC	5,567,671	10/22/96	(Bel. to corresp. to EP Fischer et al	613 885) 504	283	
	AD	5,589,469	12/31/96	(Bel. to corresp. to EP Fischer et al	521 334) 514	91	
	AE	5,602,078	02/11/97	(Bel. to corresp. to EP Fischer et al	613 884) 504	283	
	AF	5,610,122	03/11/97	(Bel. to corresp. to EP Fischer et al	647 637) 504	251	
	AG	5,616,536	04/01/97	(Bel. to corresp. to EP Fischer et al	521 334) 504	225	
	АН	5.622,917	04/22/97	(Bel. to corresp. to EP Fischer et al	668 267) 504	283	
	AI	5,661,110	08/26/97	(Bel. to corresp. to EP Krüger et al	508 126) 504	281	
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	AD	5,739,079	04/14/98	(Bel. to corresp. to EP Holdgrün et al	582 198) 504	103	
	AE	5,739,389	04/14/98	(Bel. to corresp. to EP Krüger et al	508 126) 562	489	
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	AA	5,945,444	08/31	1/99	(Bel. to corresp. to WO Fischer et al	95/26345) 514	445	
	AB	5,945,541	08/31	1/99	(Bel. to corresp. to EP Sohn et al	333 131) 548	374.1	
	AC	5,968,947	10/19	9/99	(Bel. to corresp. to WO Urch et al	98/25923) 514	299	
	AD	5,977,029	11/02	2/99	(Bel. to corresp. to WO Fischer et al	97/16436) 504	292	
	AE	5,981,567	11/09	9/99	(Bel. to corresp. to WO Fischer et al	95/01358) 514	409	
	AF	5,994,274	11/30	)/99	(Bel. to corresp. to WO Fischer et al	97/02243) 504	282	
	AG	6,051,723	04/18	3/00	(Bel. to corresp. to WO Fischer et al	96/20196) 549	420	
	АН	6,071,937	06/06	5/00	(Bel. to corresp. to WO Bretschneider et al	97/19941) 514	336	
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	LA	6,110,872	08/29	9/00	(Bel. to corresp. to WO Lieb et al	97/01535) 504	284	
	AK	6,114,374	09/05		(Bel. to corresp. to WO Lieb et al	96/05638) 514	424	
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	AC	6,150,304	11/21/00	(Bel. to corresp. to WO Fischer et al	96/10798) 504	309	
	AD	6,172,255 B1	01/09/01	(Bel. to corresp. to WO Fischer et al	95/26954) 560	24	
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	AF	6,177,442 B1	01/23/01	(Bel. to corresp. to WO Urch et al	98/25923) 514	299	
	AG	6,200,932 B1	03/13/01	(Bel. to corresp. to WO Fischer et al	98/06721) 504	225	
	АН	6,207,676 B1	03/27/01	(Bel. to corresp. to WO Urch et al	96/37494) 514	304	
	AI	6,235,680 B1	05/22/01	(Bel. to corresp. to DE Ziemer et al	196 21 522) 504	112	
	AJ	6,251,830 B1	06/26/01	(Bel. to corresp. to WO Fischer et al	97/02243) 504	251	
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Applicant
Reiner Fischer et al

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	AB	6,271,180 B2	08/07/01	(Bel. to corresp. to WO Lieb et al	97/36868) 504	292	
	AC	6,288,102 B1	09/11/01	(Bel. to corresp to WO Hagemann et al	98/25928) 514	409	
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	AG	6,359,151 B2	03/19/02	(Bel. to corresp. to WO Lieb et al	98/05638) 549	265	
	АН	6,380,246 B1	04/30/02	(Bel. to corresp. to WO Lieb et al	96/35664) 514	462	
	Al	6,388,123 B1	05/14/02	(Bel. to corresp. to WO Lieb et al	97/36868) 560	76	
	AJ	6,391,912 B1	05/21/02	(Bel. to corresp. to WO Hagemann et al	98/25928) 514	444	
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_	AA	6,469,196 B2	10/22/02	(Bel. to corresp. to WO Fischer et al	97/02243) 560	105	
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	AC	6,479,489 B1	11/12/02	(Bel. to corresp. to WO Fischer et al	95/01358) 514	235.5	
	AD	6,482,947 B1	11/19/02	(Bel. to corresp. to EP Holdgrün et al	582 198) 544	239	
	ΑE	6,486,343 B1	11/26/02	(Bel. to corresp. to WO Lieb et al	97/36868) 560	39	
	AF	6,504,036 B1	01/07/03	(Bel. to corresp. to WO Lieb et al	98/05638) 549	265	
	AG	6,511,940 B1	01/28/03	(Bel. to corresp. to WO Ziemer et al	99/66795) 504	118	
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	Al	6,515,184 B1	02/04/03	(Bel. to corresp. to WO Fischer et al	97/14667) 568	327	
	AJ	6,555,499 B1	04/29/03	(Bel. to corresp. to WO Glock et al	01/17352) 504	130	
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	AA	6,569,810 B1	05/27/03	(Bel. to corresp. to WO Fischer et al	97/14667) 504	290			
	AB	6,573,275 B1	06/03/03	(Bel. to corresp. to WO Urch et al	96/37494) 514	304			
	AC	6,576,771 B1	06/10/03	(Bel. to corresp. to WO Bretschneider et al	97/19941) 549	216			
	AD	6,589,976 B1	07/08/03	(Bel. to corresp. to WO Fischer et al	99/16748) 514	409			
	AE	6,596,873 B1	07/22/03	(Bel. to corresp. to WO Lieb et al	98/05638) 546	256			
	AF	6,608,211 B1	08/19/03	(Bel. to corresp. to WO Hagemann et al	99/24437) 548	410			
	AG	6,630,594 B2	10/07/03	(Bel. to corresp. to WO Hagemann et al	98/25928) 548	410			
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	AJ	6,759,548 B2	07/06/04	(Bel. to corresp. to WO Fischer et al	97/02243) 560	81			
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	AA	6,774,133 B2	08/10/04	Fischer et al	514	278	
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İ	AB	6,858,741 B2	02/22/05	Lieb et al	549	67	
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	AC	6,861,391 B1	03/01/05	Fischer et al	504	283	
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	AD	6,867,298 B2	03/15/05	Buchwald et al	540	489	
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	AE	6,894,005 B1	05/17/05	Maetzke et al	504	218	
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	AD	AD 2005/0090399 A1		04/28/05		(Bel. to corresp. to WO Friedmann et al	03/062244) 504	282			
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	AF	2005/0164885 A1		07/28/05		(Bel. to corresp. to WO Lieb et al	96/35664) 504	221			
	AG	2005/0164886 A1		07/28/05		(Bel. to corresp. to WO Glock	01/17353) 504	282			
	АН	2005/0187110 A1		08/25/05		(Bel. to corresp. to WO Maetzke et al	01/17972) 504	221			
	AI	2005/0215794 A1		09/29/05		(Bel. to corresp. to WO Buchwald et al	02/85838) 546	108			
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EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER